

## REMARKS

This application has been carefully reviewed in light of the Office Action dated June 20, 2006. Claims 59 to 76 are now pending in the application, with Claims 1 to 58 having been canceled. Claims 59, 66, 68 and 75 are now the independent claims herein and roughly correspond to one of previously-presented independent Claims 49, 54.

Reconsideration and further examination are respectfully requested.

Claims 29 to 31 were objected to for informalities. Inasmuch as Claims 29 to 31 have been cancelled, the objection is believed to be obviated.

Claims 1 to 3, 5 to 16, 18, 19, 21 to 28, 33 to 42, 44 to 50 and 53 to 57 were rejected under 35 U.S.C. § 102(b) over U.S. Patent No. 5,624,265 (Redford), Claims 1 and 4 were also rejected under 35 U.S.C. § 102(b) over U.S. Patent No. 5,937,163 (Lee), Claims 22 and 29 to 32 were rejected under 35 U.S.C. § 102(e) over U.S. Patent No. 6,208,799 (Marsh), Claim 43 was rejected under 35 U.S.C. § 103(a) over Redford in view of U.S. Patent No. 6,817,289 (Liebenow), Claims 17, 20 and 58 were rejected under § 103(a) over Redford in view of Liebenow and further in view of U.S. Patent No. 6,477,705 (Yuen), and Claims 51 and 52 were rejected under § 103(a) over Redford in view of U.S. Patent No. 6,271,893 (Kawaguchi). Without conceding the correctness of the rejections, they are nonetheless believed to be obviated by the cancellation of Claims 1 to 58. However, Applicants submit that newly-added Claims 59 to 76, in which dependent Claims 59, 66, 68 and 75 roughly correspond to one of previously-presented independent Claims 49 or 54 with additional features included therein, are believed to be allowable for at least the following reasons.

The present invention aims improve a user interface in a TV receiver that can receive data-broadcasting, thereby enabling each user to select his/her desired information from among many information items provided thereto only with a simple operation. In order to attain the foregoing, according to one aspect of the present invention, a data-broadcasting receiving apparatus of the present invention is arranged to lay out information extracted from received data-broadcasting data, by calculating a printing position in accordance with a predetermined expression, and then generate print data for printing out the laid-out information. (see, e.g., Figs.7-9 and accompanying description thereof.) According to the invention, since the information extracted from the received data-broadcasting data is subjected to a layout processing based on the predetermined print position calculation to be printed out, a user can select his/her desired information from among many information items provided thereto only with a simple operation.

In another aspect of the invention, a data-broadcasting receiving apparatus is arranged to reserve an operation of a receiving means to receive data-broadcasting data at a predetermined time, and in response to the receiving means receiving the data-broadcasting data at the predetermined time, automatically extracting information from the received data-broadcasting data and automatically assigning a code to a processing of the extracted information. (See, e.g., Figs. 13 and 14 and accompanying description thereof.) According to the invention, if a user inputs a code of the information which the user is interested in, the user can select his/her desired information from among many information items that are provided.

Referring specifically to the claims, Claim 59 is directed to a data-broadcasting receiving apparatus, comprising receiving means for receiving data-

broadcasting data composed of a plurality of information, the data-broadcasting data being output onto a display means, extracting means for automatically extracting information from the data-broadcasting data received by the receiving means, in accordance with a predetermined condition, generating means for laying out the information extracted by the extracting means by calculating a printing position in accordance with a predetermined expression, and generating print data for printing out the laid-out information, and output means for outputting to a printing means the print data generated by the generating means.

Claim 66 is directed to a data-broadcasting receiving apparatus, comprising receiving means for receiving data-broadcasting data composed of a plurality of information, the data-broadcasting data being output onto a display means, extracting means for automatically extracting information from the data-broadcasting data received by the receiving means, in accordance with a predetermined condition, processing means for executing a plurality of processes on a plurality of information held in the data-broadcasting data received by the receiving means, assigning means for automatically assigning a code to a process of the information extracted by the extracting means, controlling means for controlling the processing means so as to process the information in accordance with the code assigned by the assigning means, and reservation setting means for reserving an operation of the receiving means so as to receive the data-broadcasting data at a predetermined time, wherein in response to the receiving means receiving the data-broadcasting data at the predetermined time, the extracting means extracts the information and the assigning means assigns the code.

Claims 68 and 76 are method claims that substantially correspond to Claims 59 and 66, respectively.

The art of record, alone or in any permissible combination, is not seen to disclose or to suggest the features of the invention. With regard to Claims 59 and 68, the art of record is not seen to disclose or to suggest at least the features of laying out information automatically extracted from received data-broadcasting data by calculating a printing position in accordance with a predetermined expression, and generating print data for printing out the laid-out information. With regard to Claims 66 and 76, the art of record is not seen to disclose or to suggest at least the features of automatically assigning a code to a process of information automatically extracted from received data-broadcasting data, processing the information in accordance with the assigned code, and reserving an operation of a receiving means so as to receive the data-broadcasting data at a predetermined time, wherein in response to the receiving means receiving the data-broadcasting data at the predetermined time, the information is extracted and the code is assigned.

Redford is merely seen to disclose a system in which a receiver 125 of a host PC 120 receives information from a button 104 provided in a picture book 100 and the host PC 120 reads out contents 133 from a disk 132 of a server 131 in accordance with the received information to print the read-out contents (see, e.g., column 9 line 54 to column 10 line 14, and column 14 lines 30-41). That is, this reference teaches to input information from a disk in accordance with a button operation and print out the input information. However, Redford is silent on the layout processing executed in accordance with predetermined print position calculation to generate print data, as recited in the new independent Claims 59 and 68, and is also silent on code assignment performed in response

to an execution of reserved receiving of data-broadcasting data, as recited in the new independent Claim 66 and 76.

Lee is merely seen to disclose retrieving information from a WWW server on the basis of a term input by input means 16 and then to display the retrieved information. In addition, this reference discloses that a display monitor displays an image including a printer icon 126 (e.g., Fig7). However, Lee also fails to teach the foregoing features regarding layout processing (Claims 59 and 68), and the feature of code assignment functioning together with reservation of data receiving (Claims 66 and 76).

March is merely seen to disclose automatically updating recording schedule information of a VCR by using IPG data and displaying the recording schedule information of the VCR in accordance with a user's request (See, e.g., column 6 lines 47-61). The system of this reference includes a set-top box, a TV, a VCR, and a remote controller, and a code is used to identify a program (See, e.g., column 2 lines 22-54). However, the reference of Marsh also fails to teach the foregoing feature regarding layout processing (Claims 59 and 68), and the feature regarding code assignment functioning together with reservation of data receiving (Claims 66 and 76).

Liebenow is merely seen to disclose systems that display and print text that give the user the ability to control the color in which text is printed out (See, e.g., column 3, lines 11-51). However, Liebenow is not seen to disclose or to suggest the features of laying out information automatically extracted from received data-broadcasting data by calculating a printing position in accordance with a predetermined expression, and generating print data for printing out the laid-out information (Claims 59 and 68), or at least the features of automatically assigning a code to a process of information

automatically extracted from received data-broadcasting data, processing the information in accordance with the assigned code, and reserving an operation of a receiving means so as to receive the data-broadcasting data at a predetermined time, wherein in response to the receiving means receiving the data-broadcasting data at the predetermined time, the information is extracted and the code is assigned (Claims 66 and 76).

Yuen is merely seen to disclose an input means with color buttons for allowing a user to perform various functions (see, e.g., buttons 36-39 in Fig.2, and column 5 lines 39-47). However, Yuen is not seen to disclose or to suggest the features of laying out information automatically extracted from received data-broadcasting data by calculating a printing position in accordance with a predetermined expression, and generating print data for printing out the laid-out information (Claims 59 and 68), or at least the features of automatically assigning a code to a process of information automatically extracted from received data-broadcasting data, processing the information in accordance with the assigned code, and reserving an operation of a receiving means so as to receive the data-broadcasting data at a predetermined time, wherein in response to the receiving means receiving the data-broadcasting data at the predetermined time, the information is extracted and the code is assigned (Claims 66 and 76).

Kawaguchi is merely seen to disclose a reservation setting means which sets a schedule for when a set-top box is to receive data (See, e.g., column 5 lines 20-44, and column 7 lines 6-23). However, Kawaguchi is not seen to disclose or to suggest the features of laying out information automatically extracted from received data-broadcasting data by calculating a printing position in accordance with a predetermined expression, and generating print data for printing out the laid-out information (Claims 59 and 68), or at

least the features of automatically assigning a code to a process of information automatically extracted from received data-broadcasting data, processing the information in accordance with the assigned code, and reserving an operation of a receiving means so as to receive the data-broadcasting data at a predetermined time, wherein in response to the receiving means receiving the data-broadcasting data at the predetermined time, the information is extracted and the code is assigned (Claims 66 and 76).

In view of the foregoing amendments and remarks, newly-added independent Claims 59, 66, 68 and 76, as well as the claims dependent therefrom, are believed to be allowable.

No other matters having been raised, the entire application is believed to be in condition for allowance and such action is respectfully requested at the Examiner's earliest convenience.

Applicants' undersigned attorney may be reached in our Costa Mesa, California office at (714) 540-8700. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

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